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Examiner: Group Art Unit: 1645 Applicant: Kenneth J. Rothschild et al.

le: Methods For The Detection, Analysis

And Isolation Of Nascent Proteins

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$$R = -CH_3$$
 ALANINE  
HOOC  $NH_2$   $R = -CH(CH_3)_2$  VALINE

## FIG. 1A

OOC-ALANINE-VALINE-TYROSINE-LYSINE-TRYPTOPHAN-NH3+

### FIG. 1B

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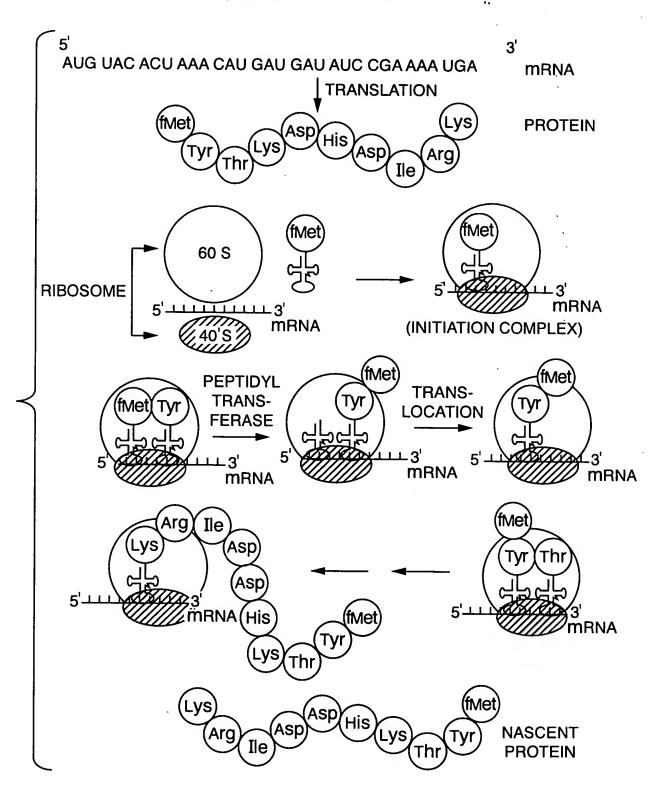


FIG. 2

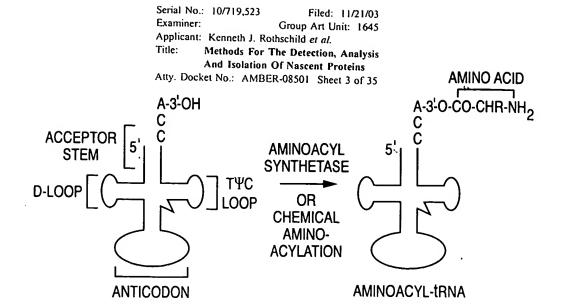


FIG. 3A

FIG. 3B

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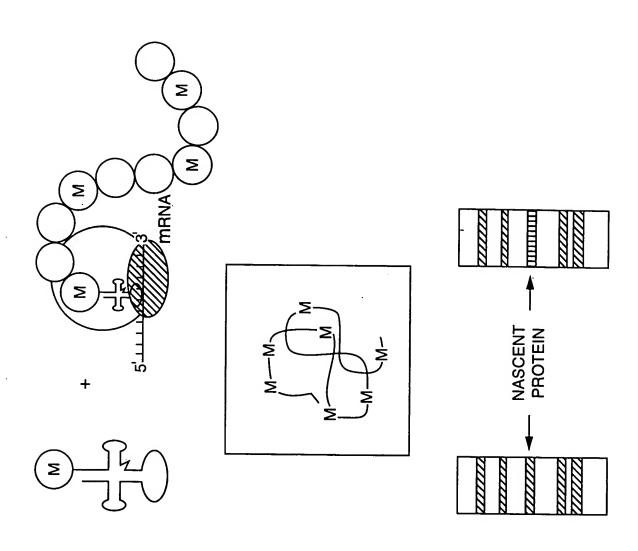


FIG 4

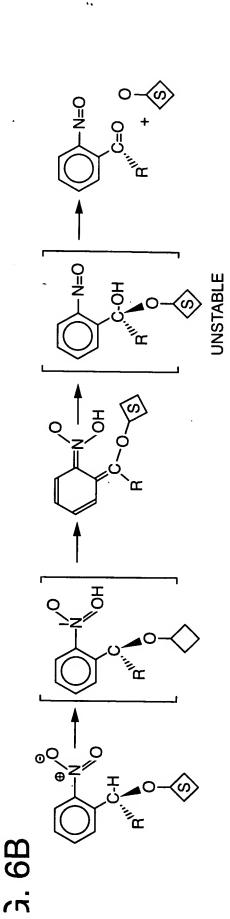
Serial No.: 10/719,523 Filed: 11/21/03 Examiner: Group Art Unit: 1645 Applicant: Kenneth J. Rothschild et al. N(CH<sub>3</sub>)<sub>2</sub> Methods For The Detection, Analysis And Isolation Of Nascent Proteins Atty. Docket No.: AMBER-08501 Sheet 5 of 35 осн3 so<sub>2</sub> Adccirna **T4 LIGASE** T4 LIGASE O tRNAC-OH  $\dot{N}(CH_3)_2$ pdCpA NHNVOC осн3 \$0<sub>2</sub>  $\dot{N}(CH_3)_2$ (NS-DANSYLL LYSINE) осн3 NH3 ⊕ \$0<sub>2</sub> 1. NaOEt 2. HCI, REFLUX 3. PYRIDINE 000C DANSYL ©OOC  $\dot{N}(CH_3)_2$ -C...INHCOCH3 COOB COOB \$0<sub>2</sub> (C-N-tBOC) LYSINE NH2 SCHEME 1 SCHEME 2

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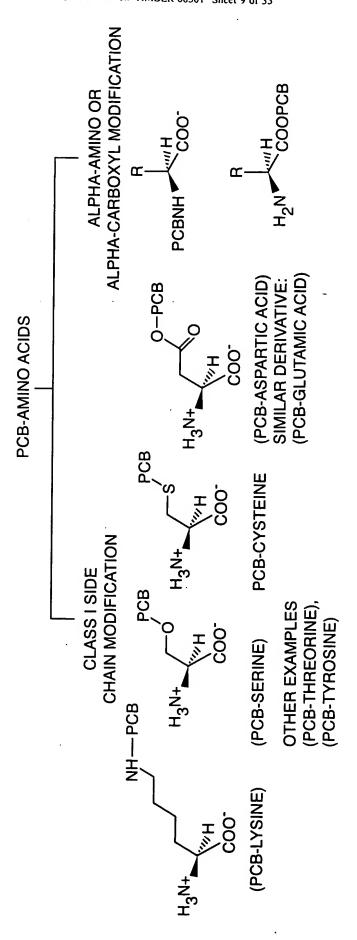
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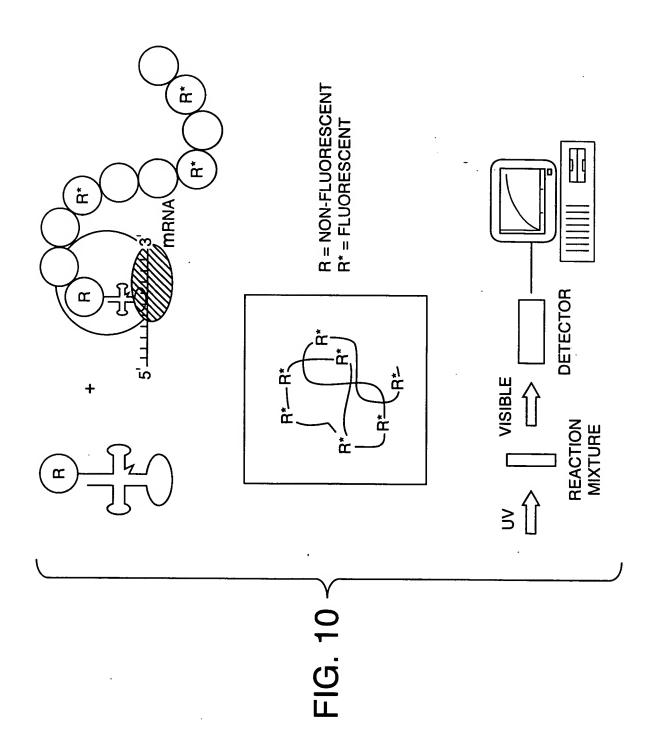
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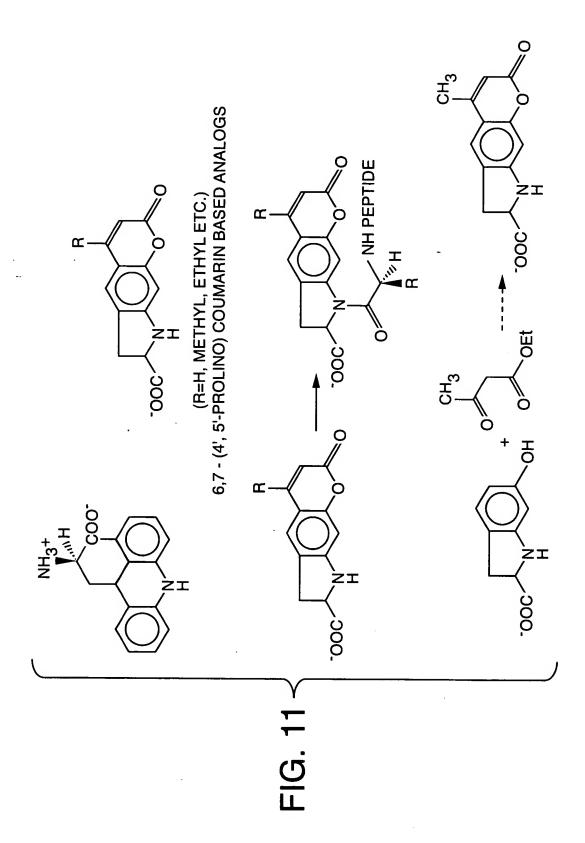
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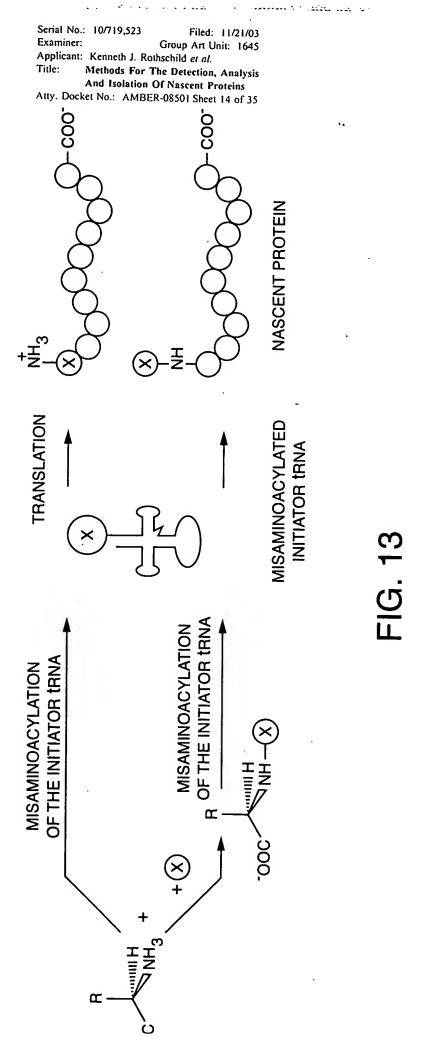
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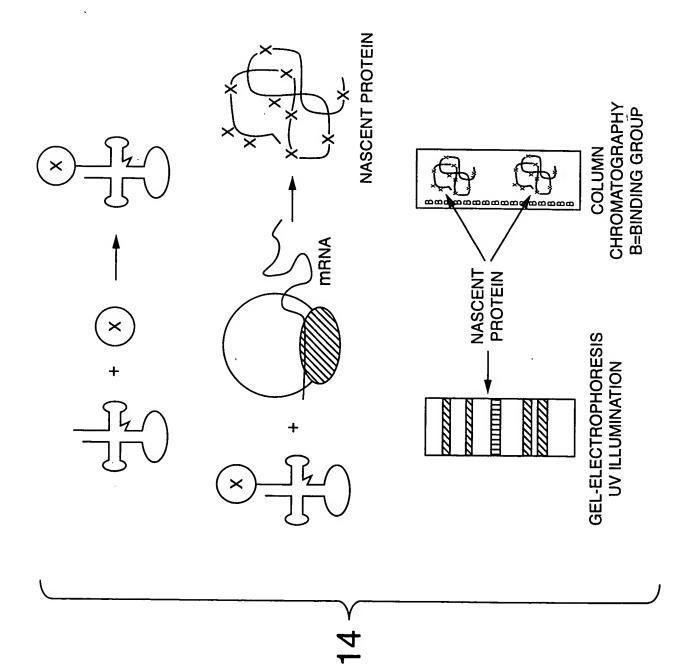
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H, ALKYL, SÜBSTITÜTED ALKYL, ARYL, SÜBSTITÜTE ARYL  $Y = (POLY) NO_2$ , ALKYL, ALKOXYL N, N-C, NH, O, S, CH<sub>2</sub> H H  $Z' = AS FOR Z (Z = Z'OR Z \neq Z')$   $M = 0, 1, 2 \dots (M = 0, Z = 0)$ CI, O-NHYDROXYSUCCINIMIDYL  $1, 2 \dots (n = 0, Z = 0)$ m = 0, 1, '2Z = C, n = 0, .∥ × E II OR × PHOTO-REACTIVE -MOIETY BLOTLNYL MOIETY LINEAR ARM



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PHOTOCLEAVABLE BIOTIN CHLOROFORMATE

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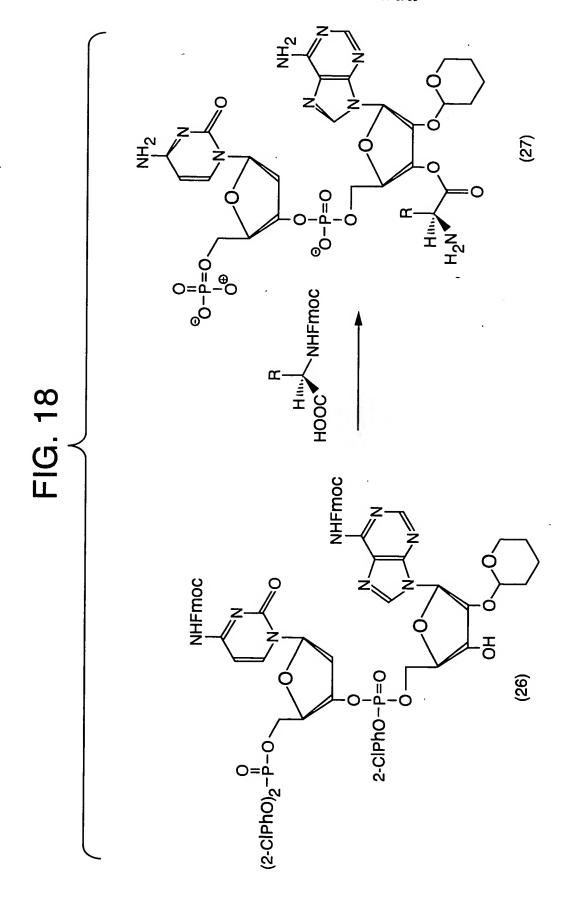
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$$\begin{array}{c|c}
7 & 8 & 1 \\
\hline
 & N & 3 \\
\hline
 & 5 & F & 8 \\
\hline
 & 5 & F & 4
\end{array}$$

FIG. 19

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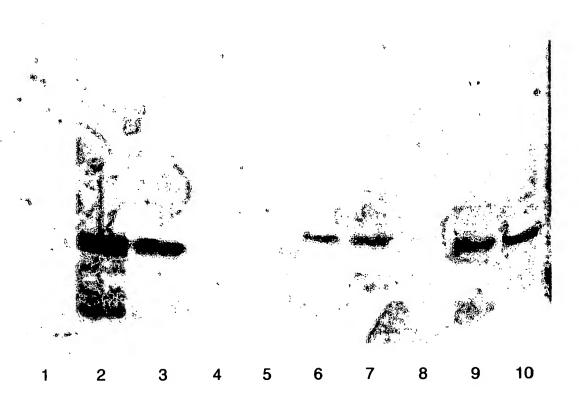


FIG. 20

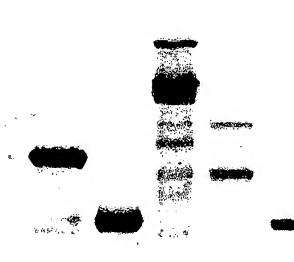
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1 2 3 5 6

FIG. 21A

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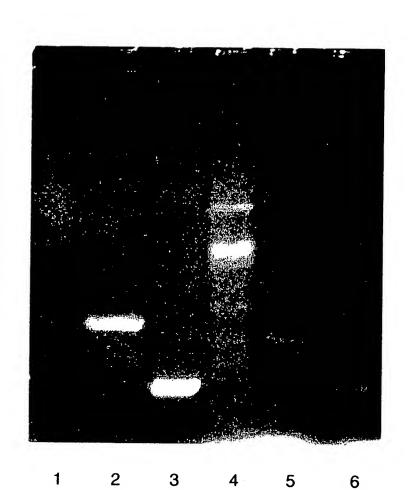


FIG. 21B

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0 5 10 15 30 45 60

FIG. 22A

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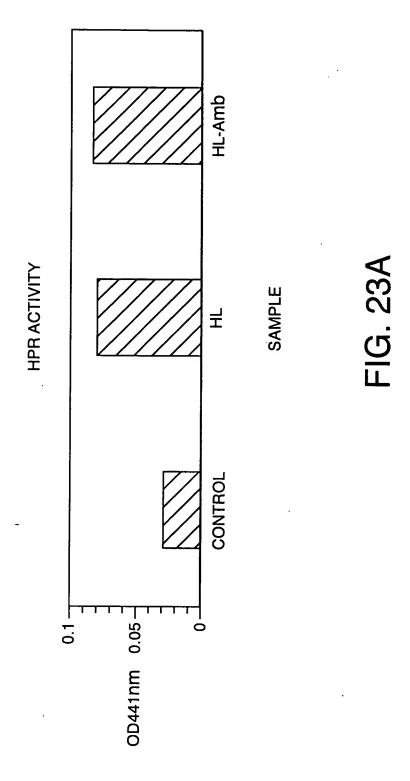
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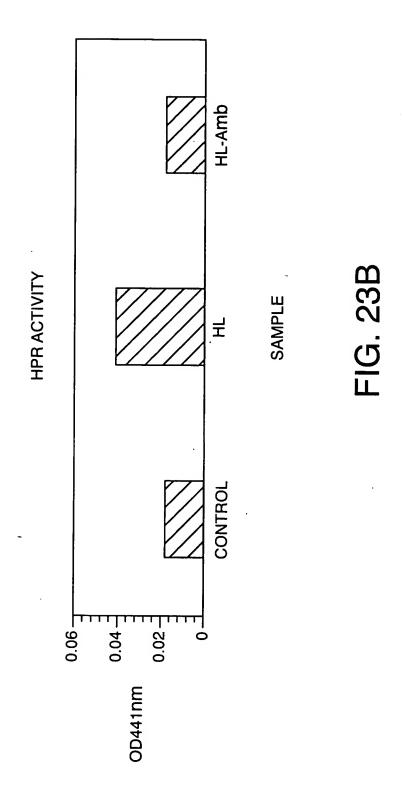
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FIG. 22B

And Isolation Of Nascent Proteins

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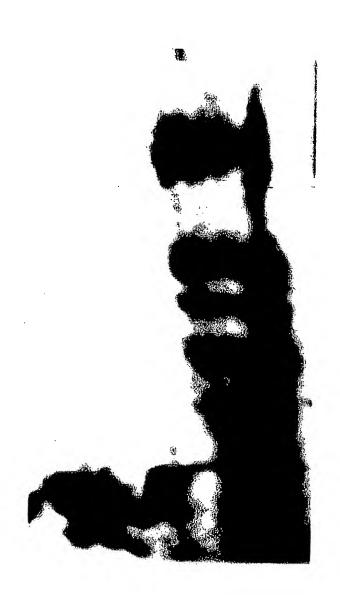
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FIG. 24

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FIG. 25

2

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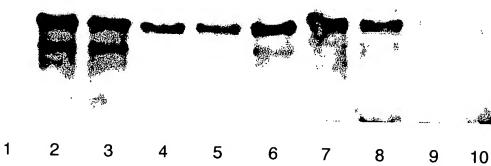


FIG. 26A

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1 2 3 6 7 5 9 10

FIG. 26B

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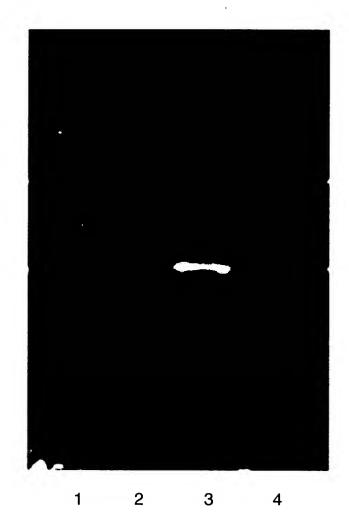
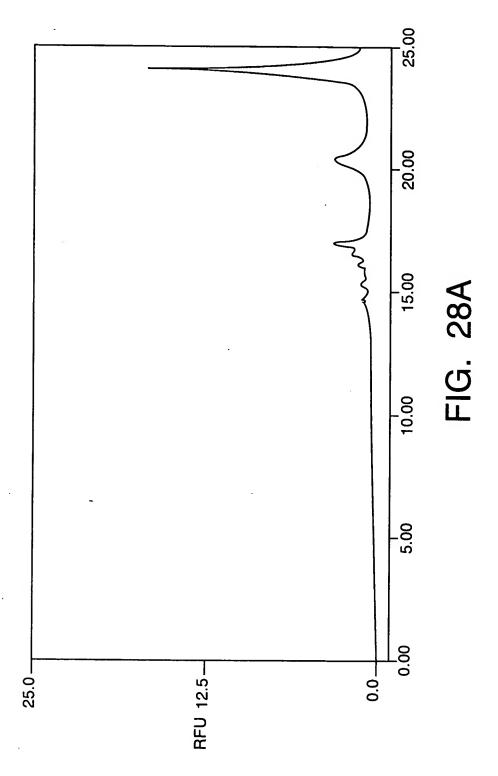
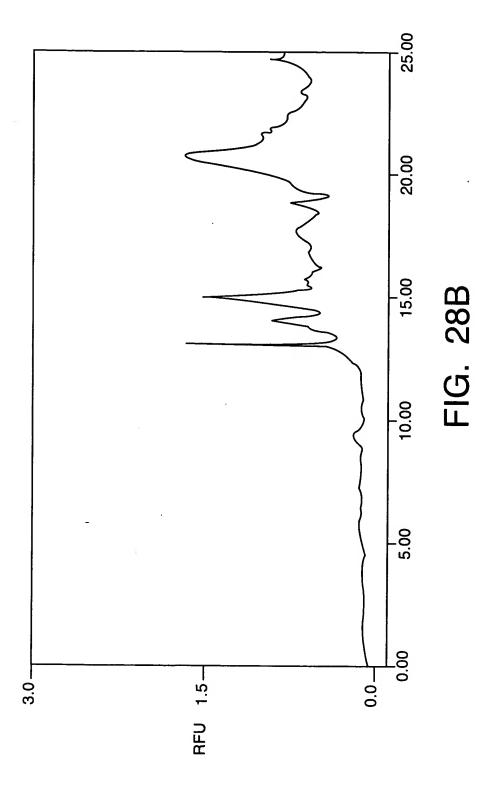


FIG. 27

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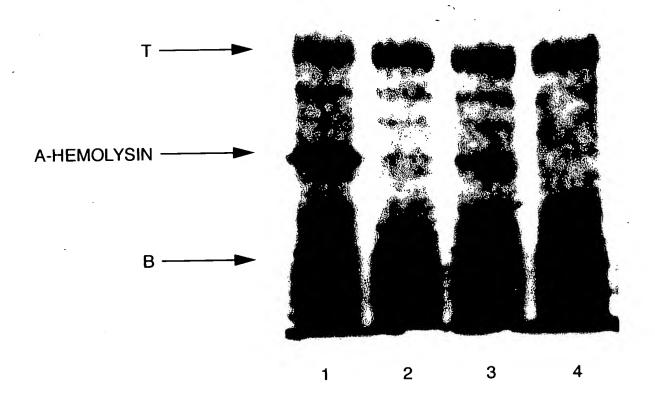


FIG. 29

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